

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2010; month=4; day=26; hr=14; min=10; sec=15; ms=458;]

=====

Application No: 10551619 Version No: 4.0

Input Set:

Output Set:

Started: 2010-04-22 15:56:57.449
Finished: 2010-04-22 15:57:00.991
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 542 ms
Total Warnings: 33
Total Errors: 0
No. of SeqIDs Defined: 33
Actual SeqID Count: 33

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2010-04-22 15:56:57.449
Finished: 2010-04-22 15:57:00.991
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 542 ms
Total Warnings: 33
Total Errors: 0
No. of SeqIDs Defined: 33
Actual SeqID Count: 33

Error code	Error Description
------------	-------------------

	This error has occurred more than 20 times, will not be displayed
--	---

SEQUENCE LISTING

<110> The Regents of the University of California
Martin, Paul Taylor

<120> AMYLOID-SPECIFIC PEPTIDES AND USES THEREOF

<130> 00015-022US1

<140> 10551619

<141> 2006-12-22

<150> US 60/461,168

<151> 2003-04-07

<150> PCT/US04/10939

<151> 2004-04-07

<160> 33

<170> PatentIn version 3.5

<210> 1

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> consensus peptide sequence

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa is any amino acid but not a negatively charged amino acid

<220>

<221> MISC_FEATURE

<222> (3)..(3)

<223> Xaa is a positively charged amino acid

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> Xaa is any amino acid but not a negatively charged amino acid

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> Xaa is any amino acid but not a negatively charged amino acid

<220>

```
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa is a postively charged amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa may or may not be present if Xaa is present Xaa is any amino
acid

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is W or F

<400> 1
```

Xaa
1 5 10

```
<210> 2
<211> 20
<212> PRT
<213> Artificial sequence

<220>
<223> Phage display peptide library sequence
```

<400> 2

Asp Trp Gly Lys Gly Gly Arg Trp Arg Leu Trp Pro Gly Ala Ser Gly
1 5 10 15

Lys Thr Glu Ala
20

```
<210> 3
<211> 20
<212> PRT
```

<213> Artificial sequence

<220>

<223> Phage display peptide library sequence

<400> 3

Pro Gly Arg Ser Pro Phe Thr Gly Lys Lys Leu Phe Asn Gln Glu Phe
1 5 10 15

Ser Gln Asp Gln
20

<210> 4

<211> 26

<212> PRT

<213> Artificial sequence

<220>

<223> Phage display peptide library sequence

<400> 4

Ala Glu Cys Asp Trp Gly Lys Gly Arg Trp Arg Leu Trp Pro Gly
1 5 10 15

Ala Ser Gly Lys Thr Glu Ala Cys Gly Pro
20 25

<210> 5

<211> 22

<212> PRT

<213> Artificial sequence

<220>

<223> Phage display peptide library sequence

<400> 5

Cys Asp Trp Gly Lys Gly Arg Trp Arg Leu Trp Pro Gly Ala Ser
1 5 10 15

Gly Lys Thr Glu Ala Cys
20

<210> 6

<211> 22

<212> PRT

<213> Artificial sequence

<220>

<223> Phage display peptide library sequence

<400> 6

Cys Pro Gly Arg Ser Pro Phe Thr Gly Lys Lys Leu Phe Asn Gln Glu
1 5 10 15

Phe Ser Gln Asp Gln Cys
20

<210> 7

<211> 20

<212> PRT

<213> Artificial sequence

<220>

<223> Phage display peptide library sequence

<400> 7

Leu Gly Ser Gly Arg Ile Gly Asp Gly Trp Ser Asp Gly Gly Leu Ala
1 5 10 15

Arg Arg Leu Lys
20

<210> 8

<211> 20

<212> PRT

<213> Artificial sequence

<220>

<223> Phage display peptide library sequence

<400> 8

Asp Gly Gly Gly Ala Gly Arg Trp Thr Thr Lys Asp Arg Ser Ala
1 5 10 15

Ala Lys Thr Glu
20

<210> 9

<211> 20

<212> PRT

<213> Artificial sequence

<220>

<223> Phage display peptide library sequence

<400> 9

Val Asp Asp Gly Ala Gln Gly Lys Arg Trp Gly Gly Met Gly Leu Gly
1 5 10 15

Lys Gly Arg Arg
20

<210> 10
<211> 20
<212> PRT
<213> Artificial sequence

<220>
<223> Phage display peptide library sequence

<400> 10

Ser Gly Ser Gly Val Gly Leu Arg Met Ala Ser Gln Arg His Glu Gly
1 5 10 15

Arg Lys Val Tyr
20

<210> 11
<211> 20
<212> PRT
<213> Artificial sequence

<220>
<223> Phage display peptide library sequence

<400> 11

Gln Leu Pro Gln Asn Gly Gly Pro Ala Trp Phe Thr Arg Lys Ala Gly
1 5 10 15

Gln Gly Gly Arg
20

<210> 12
<211> 20
<212> PRT
<213> Artificial sequence

<220>
<223> Phage display peptide library sequence

<400> 12

Leu Gly Tyr Ala Gly Gly Gln Gly Met Val Glu Gly Ser Phe Trp
1 5 10 15

Pro Thr Ser Trp
20

<210> 13
<211> 20
<212> PRT
<213> Artificial sequence

<220>
<223> Phage display peptide library sequence

<400> 13

Gly Leu Arg Gly Met Glu Gly Arg Gly Tyr Pro Lys Asp Arg Arg Asp
1 5 10 15

Arg Asn Leu Glu
20

<210> 14
<211> 20
<212> PRT
<213> Artificial sequence

<220>
<223> Phage display peptide library sequence

<400> 14

Leu Ile Gly Gly Asn Lys Ala Gly Arg Gly Ala Trp Gly Val Val Ala
1 5 10 15

Ser Ser Gly Arg
20

<210> 15
<211> 20
<212> PRT
<213> Artificial sequence

<220>
<223> Phage display peptide library sequence

<400> 15

Glu Leu Glu Ser Arg Gly Gly Leu Gly Tyr Ala Trp Arg Gly Ser Ala
1 5 10 15

Ser Thr Met Asp

<210> 16
<211> 20
<212> PRT
<213> Artificial sequence

<220>
<223> Phage display peptide library sequence

<400> 16

Lys Gly Glu Thr Gly Asn Gly Gly Arg Ala Lys Ala Gly Thr Val Asp
1 5 10 15

Leu Ile Arg Arg
20

<210> 17
<211> 50
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus peptide sequence

<220>
<221> MISC_FEATURE
<222> (1)..(20)
<223> Xaa may or may not be present, if present Xaa is a C or any amino acid

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (22)..(25)
<223> Xaa is a positively charged or non-negatively charged amino acid

<220>
<221> MISC_FEATURE
<222> (26)..(26)
<223> Xaa is a positively charged amino acid

<220>
<221> MISC_FEATURE
<222> (27)..(27)
<223> Xaa is W or F

<220>

```
<221> MISC_FEATURE
<222> (28)..(28)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (30)..(30)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (31)..(50)
<223> Xaa may or may not be present, if present Xaa is a C or any amino
acid

<400> 17
```

Xaa
1 5 10 15

Xaa
20 25 30

Xaa
35 40 45

Xaa Xaa
50

```
<210> 18
<211> 30
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus peptide sequence
```

```
<220>
<221> MISC_FEATURE
<222> (1)..(20)
<223> Xaa may or may not be present, if present Xaa is a C or any amino
acid
```

```
<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Xaa is W or F
```

<220>
<221> MISC_FEATURE
<222> (22) .. (25)
<223> Xaa is a positively charged or non-negatively charged amino acid

<220>
<221> MISC_FEATURE
<222> (26) .. (26)
<223> Xaa is a positively charged amino acid

<220>
<221> MISC_FEATURE
<222> (27) .. (27)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (28) .. (29)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (30) .. (30)
<223> Xaa is W or F

<400> 18

Xaa
1 5 10 15

Xaa
20 25 30

<210> 19
<211> 30
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus peptide sequence

<220>
<221> MISC_FEATURE
<222> (1) .. (1)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (2) .. (5)
<223> Xaa is a positively charged or non-negatively charged amino acid

<220>
<221> MISC_FEATURE

<222> (6)..(6)
<223> Xaa is a positively charged amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (8)..(9)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (11)..(30)
<223> Xaa may or may not be present, but when present is C or any amino acid

<400> 19

Xaa
1 5 10 15

Xaa
20 25 30

<210> 20
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus peptide sequence

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa may or may not be present and if present is C or any amino acid

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (3)..(6)

<223> Xaa is a positively charged or non-negatively charged amino acid

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> Xaa is a positively charged amino acid

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> Xaa is W or F

<220>

<221> MISC_FEATURE

<222> (9)..(10)

<223> Xaa is any amino acid

<220>

<221> MISC_FEATURE

<222> (11)..(11)

<223> Xaa is W or F

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa may or may not be present, but if present is C or any amino acid

<400> 20

Xaa Xaa

1

5

10

<210> 21

<211> 51

<212> PRT

<213> Artificial sequence

<220>

<223> Consensus peptide sequence

<220>

<221> MISC_FEATURE

<222> (1)..(20)

<223> Xaa may or may not be present, if present Xaa is a C or any amino acid

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> Xaa is W or F

<220>

<221> MISC_FEATURE

<222> (22)..(22)

<223> Xaa is a non-negatively charged amino acid

<220>

<221> MISC_FEATURE

<222> (23) .. (23)

<223> Xaa is a positively charged amino acid

<220>

<221> MISC_FEATURE

<222> (24) .. (25)

<223> Xaa is a non-negatively charged amino acid

<220>

<221> MISC_FEATURE

<222> (26) .. (26)

<223> Xaa is a positively charged amino acid

<220>

<221> MISC_FEATURE

<222> (27) .. (27)

<223> Xaa is W or F

<220>

<221> MISC_FEATURE

<222> (28) .. (30)

<223> Xaa is any amino acid

<220>

<221> MISC_FEATURE

<222> (31) .. (31)

<223> Xaa is W or F

<220>

<221> MISC_FEATURE

<222> (32) .. (51)

<223> Xaa may or may not be present, if present Xaa is a C or any amino acid

<400> 21

Xaa
1 5 10 15

Xaa
20 25 30

Xaa
35 40 45

Xaa Xaa Xaa
50

<210> 22

<211> 31
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus peptide sequence

<220>
<221> MISC_FEATURE
<222> (1)..(20)
<223> Xaa may or may not be present, but if present Xaa is C or any amino acid

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (22)..(22)
<223> Xaa is a non-negatively charged amino acid

<220>
<221> MISC_FEATURE
<222> (23)..(23)
<223> Xaa is a positively charged amino acid

<220>
<221> MISC_FEATURE
<222> (24)..(25)
<223> Xaa is a non-negatively charged amino acid

<220>
<221> MISC_FEATURE
<222> (26)..(26)
<223> Xaa is a positively charged amino acid

<220>
<221> MISC_FEATURE
<222> (27)..(27)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (28)..(30)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (31)..(31)
<223> Xaa is W or F

<400> 22

Xaa Xaa

1

5

10

15

Xaa
20 25 30

<210> 23
<211> 31
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus peptide sequence

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is a non-negatively charged amino acid

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa is a positively charged amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(5)
<223> Xaa is a non-negatively charged amino acid

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa is a positively charged amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (8)..(10)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is W or F

<220>

<221> MISC_FEATURE
<222> (12)..(31)
<223> Xaa may or may not be present, but if present Xaa is C or any amino acid

<400> 23

Xaa
1 5 10 15

Xaa
20 25 30

<210> 24
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus peptide sequence

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is a non-negatively charged amino acid

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa is a positively charged amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(5)
<223> Xaa is a non-negatively charged amino acid

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa is a positively charged amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (8)..(10)

<223> Xaa is any amino acid

<220>

<221> MISC_FEATURE

<222> (11)..(11)

<223> Xaa is W or F

<400> 24

Xaa Xaa

1 5 10

<210> 25

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> Flanking peptide sequence

<400> 25

Ser Arg Lys Asn Gln

1 5

<210> 26

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Phage display peptide library sequence

<400> 26

His Cys Ser Gln Asn Glu Asp Gly Ala

1 5

<210> 27

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Phage display peptide library sequence

<400> 27

Tyr Ser Thr Thr Ser Trp Tyr Tyr Trp

1 5

<210> 28

<211> 40

<212> PRT
<213> Artificial sequence

<220>
<223> Alpha-Beta 1-40 fragment

<400> 28

Asp Ala Glu Phe Lys His Asp Ser Gly Thr Glu Val His His Gln Lys
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
20 25 30

Gly Leu Met Val Gly Gly Val Val
35 40

<210> 29
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> primer

<400> 29

gttttgtcgtc tttccagacg 20

<210> 30
<211> 105
<212> DNA
<213> Artificial sequence

<220>
<223> Nucleotide cloning sequence

<400> 30

cggggtagcttgcgatggggggaa ggggggtcggtggcggttgttgcggccgggtgc 60

gtcggggaaag acggaggcggt gcggccggcc gtattagtct agagc 105

<210> 31
<211> 105
<212> DNA
<213> Artificial sequence

<220>
<223> Nucleotide cloning sequence

<400> 31

gctctagact aatacggcggttgcgacgccc tccgtttcc ccgacgcacc cggccacaac 60

cggccaccgac ccccccttccc ccaatcgcat tctgcaggta ccccg

105

<210> 32
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<223> Flanking sequence from phage coat

<400> 32

Cys Gly Pro Pro Tyr
1 5

<210> 33
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> Consensus peptide sequence

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is W or F

<220>
<221> MISC_FEATURE
<222> (2)..(6)
<223> Xaa is any positi